

TT Electronics launches TFHP series thin film high power chip resistors

New thin film chips on aluminium nitride (AlN) offer circuit designers high power and high precision in a single resistor product

Woking, UK, 13 September 2022 - TT Electronics, a global provider of engineered technologies for performance critical applications, today announced its TFHP series thin film, high power chip resistors. The TFHP product family combines high power and high precision in a single resistor, capitalising on aluminium nitride (AlN) ceramic substrate with nearly six times the conductivity of alumina, the conventional substrate material for chip resistors. This high power density component saves printed circuit board (PCB) area and can boost reliability by restricting the temperature rise in the component hotspot. TFHP series thin film high power chip resistors are optimised for precision power supply, power amplifier, and process control applications, which all benefit from the enhanced heat transfer from element to terminals of this specialist design.

“Aluminium nitride based TFHP with the precision of thin film technology is a strategic addition to TT’s growing portfolio of power chip resistors,” said Nick Atkinson, Senior Product Line Manager, TT Electronics. “The unique value these resistors provide gives designers the opportunity to reduce component size, minimise temperature rise, and increase reliability of their high-power analogue circuit designs.”

Building on TT’s expertise in power chip resistors engineered to meet demanding thermal management targets, the new TFHP series offers 2W in 1206 and 6W in 2512 chip sizes. In addition, TFHP features large area terminations for improved thermal contact with a PCB. These high-power resistors also offer greater precision than thick film alternatives, delivering 0.1% tolerance, 25ppm/°C TCR combined with reduced self-heating to improve linearity.

View information on the TT Electronics TFHP series [here](#).

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About TT Electronics plc

TT Electronics is a global provider of engineered technologies for performance critical applications.

TT solves electronics challenges for a sustainable world. TT benefits from enduring megatrends in structurally high-growth markets including healthcare, aerospace, defence, electrification and automation. TT invests in R&D to create designed-in products where reliability is mission critical. Products designed and manufactured include sensors, power

management and connectivity solutions. TT has design and manufacturing facilities in the UK, North America, Sweden and Asia.

For more information about TT Electronics visit www.ttelelectronics.com.

Marketing contact:

Shelby Rivera
Marketing Coordinator
Sensors & Specialist Components
TT Electronics
T: (469) 712-0075
E: Shelby.rivera@ttelelectronics.com

Press contact:

Jacqueline Zerbst
MPowered Public Relations
T: +1 877 794 6777
E: pr@mpoweredpr.com